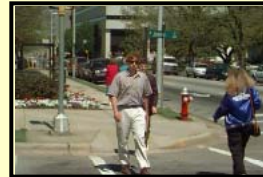
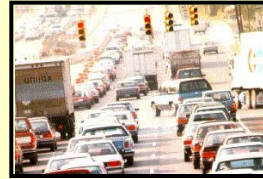
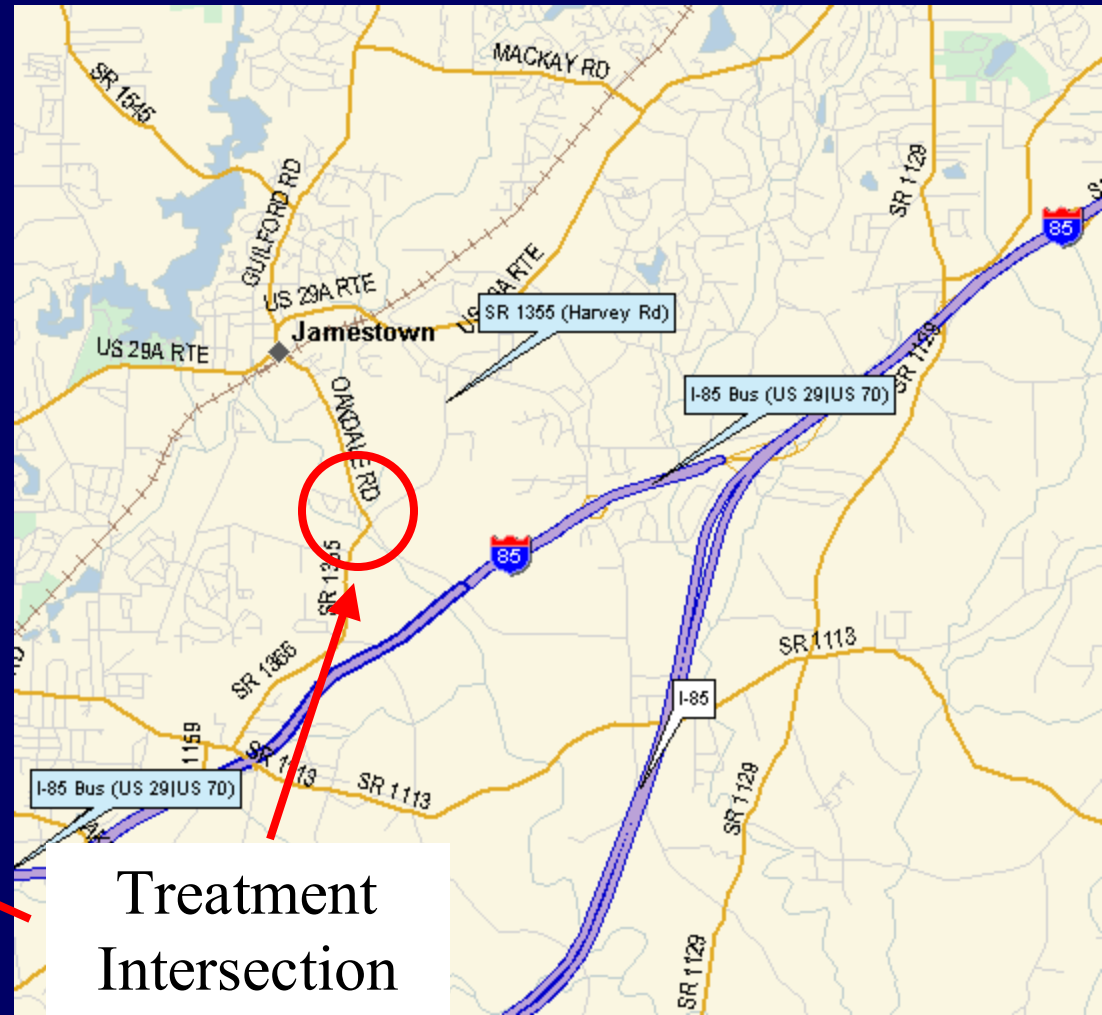


Traffic Signal Evaluation (1)



Traffic Signal Evaluation (1)

- Location:
 - SR 1355 (Harvey) at SR 1144 (River) / SR 1352 (Oakland) in Guilford County || SS# 07-98-222
- Countermeasure:
 - Convert Existing Overhead Flasher To Fully Actuated Traffic Signal
 - Cost: \$30,000



Treatment
Intersection

Traffic Signal Evaluation (1)

SR 1144 - Look Northwest



SR 1352 - Look Southeast



SR 1355 - Look Northeast

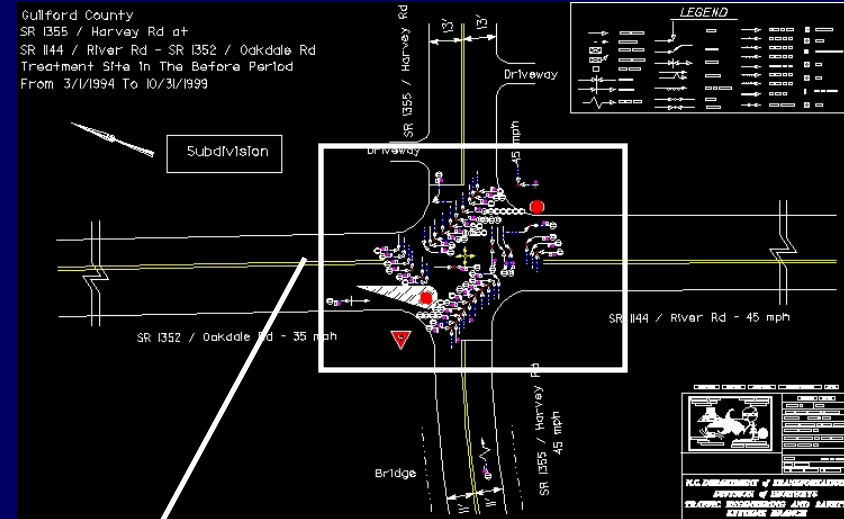
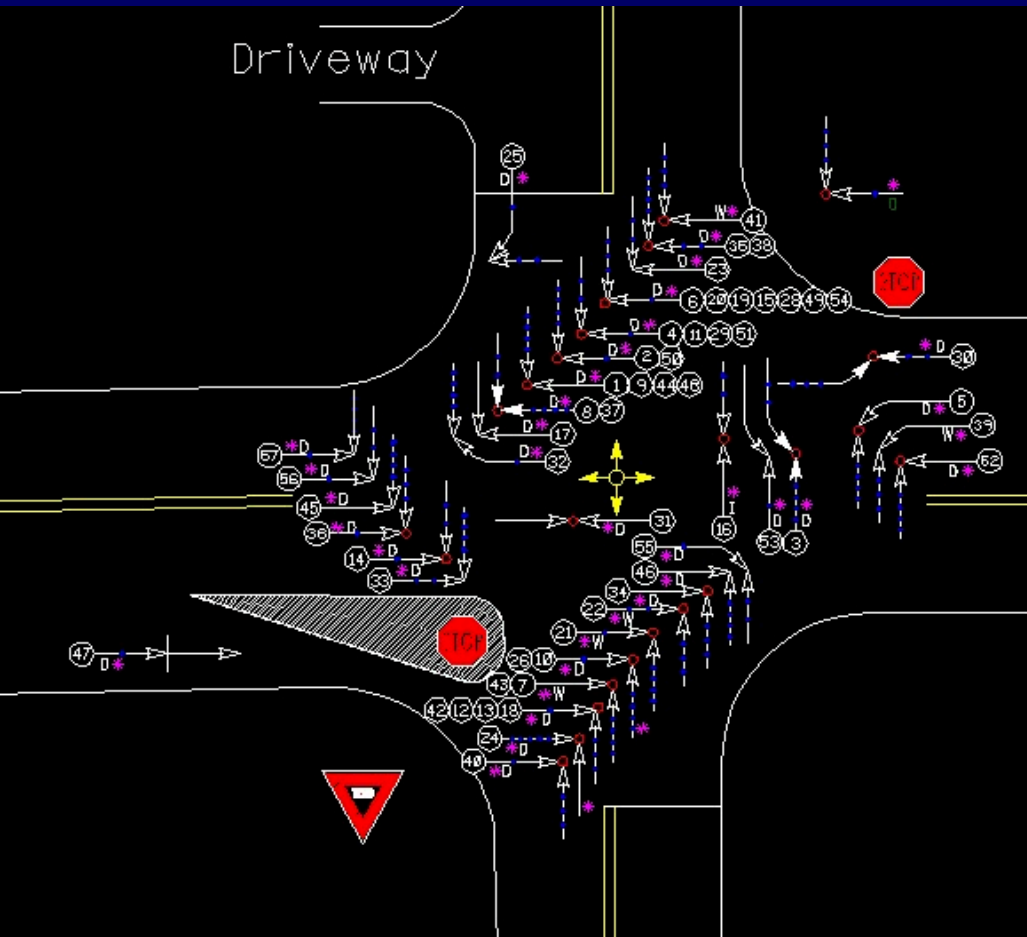


SR 1355 - Look Southwest



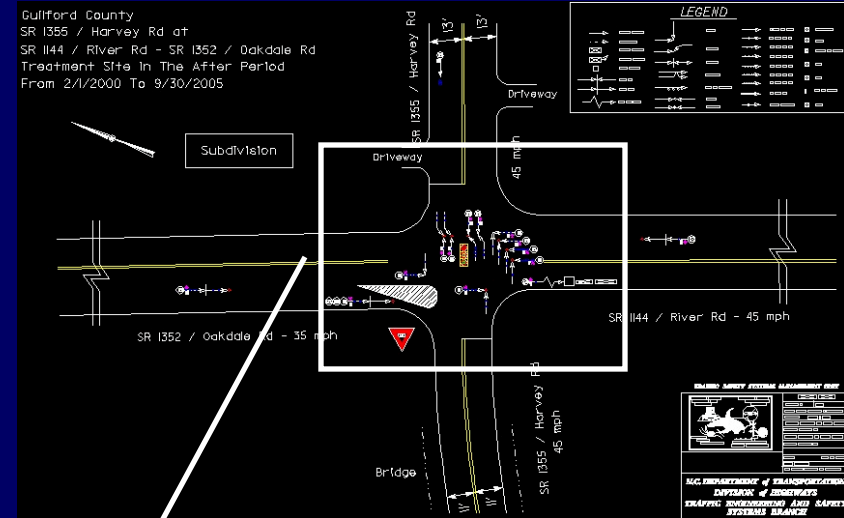
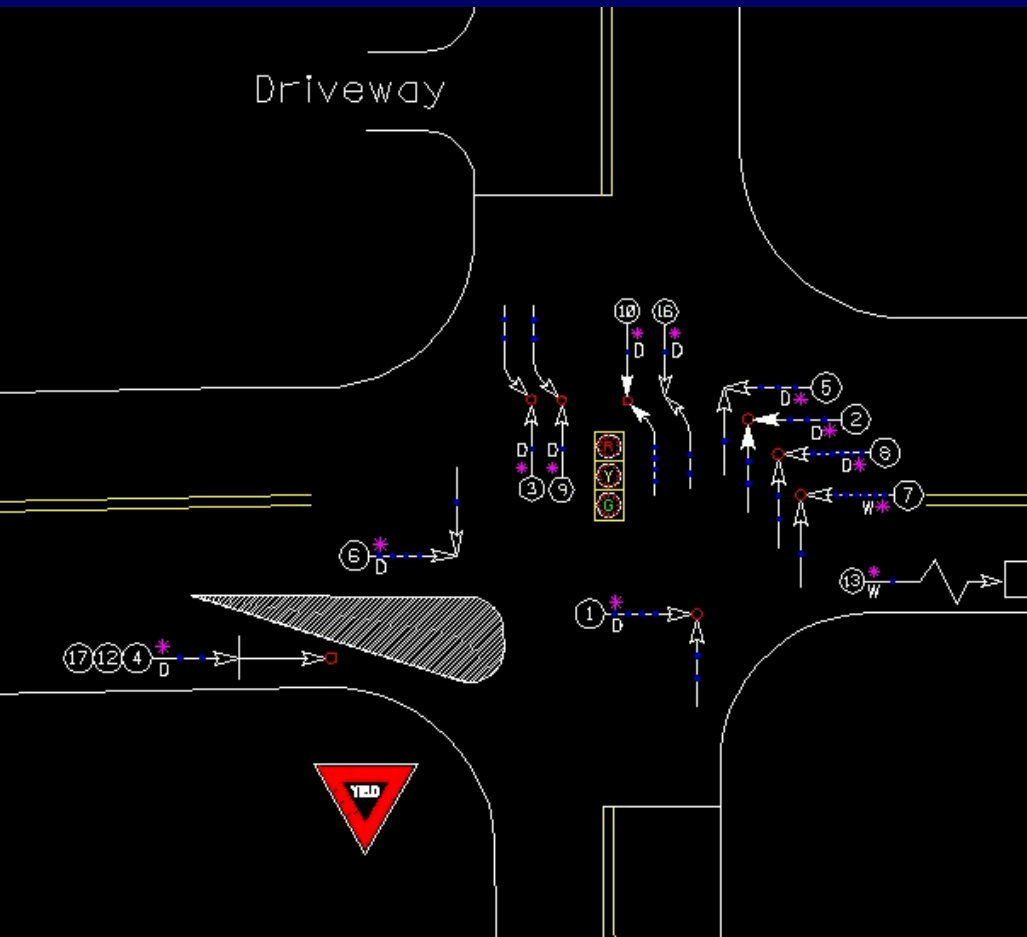
Traffic Signal Evaluation (1)

Before Collision Diagram



Traffic Signal Evaluation (1)

After Collision Diagram



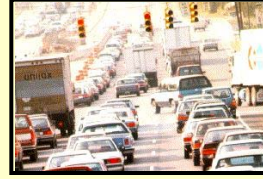
Traffic Signal Evaluation (1)

Results

Treatment Information			
	Before	After	Percent Reduction (-) / Percent Increase (+)
Total Crashes	57	17	-70.2
Total Severity Index	7.0	5.4	-23.6
Frontal Impact Crashes	55	10	-81.8
Frontal Severity Index	7.2	6.2	-14.4
Volume	5500	6400	16.4
Comparison Strip Information			
	Before	After	Percent Reduction (-) / Percent Increase (+)
Total Crashes	120	93	-22.5
Total Severity Index	7.0	5.9	-16.3
Frontal Impact Crashes	89	29	-67.4
Frontal Severity Index	8.0	3.8	-52.3
Volume	8000	10000	25.0
Odds Ratio: Treatment versus Comparison			
	Before	After	Percent Reduction (-) / Percent Increase (+)
Treatment Total Crashes	57	17	-61.5
Comparison Total Crashes	120	93	
Treatment F.I. Crashes	55	10	-44.2
Comparison F.I. Crashes	89	29	

- Total Crashes
 - Reduced 62 - 70 %
- Frontal Impact Crashes
 - Reduced 23 - 44 %

Traffic Signal Evaluation (2)

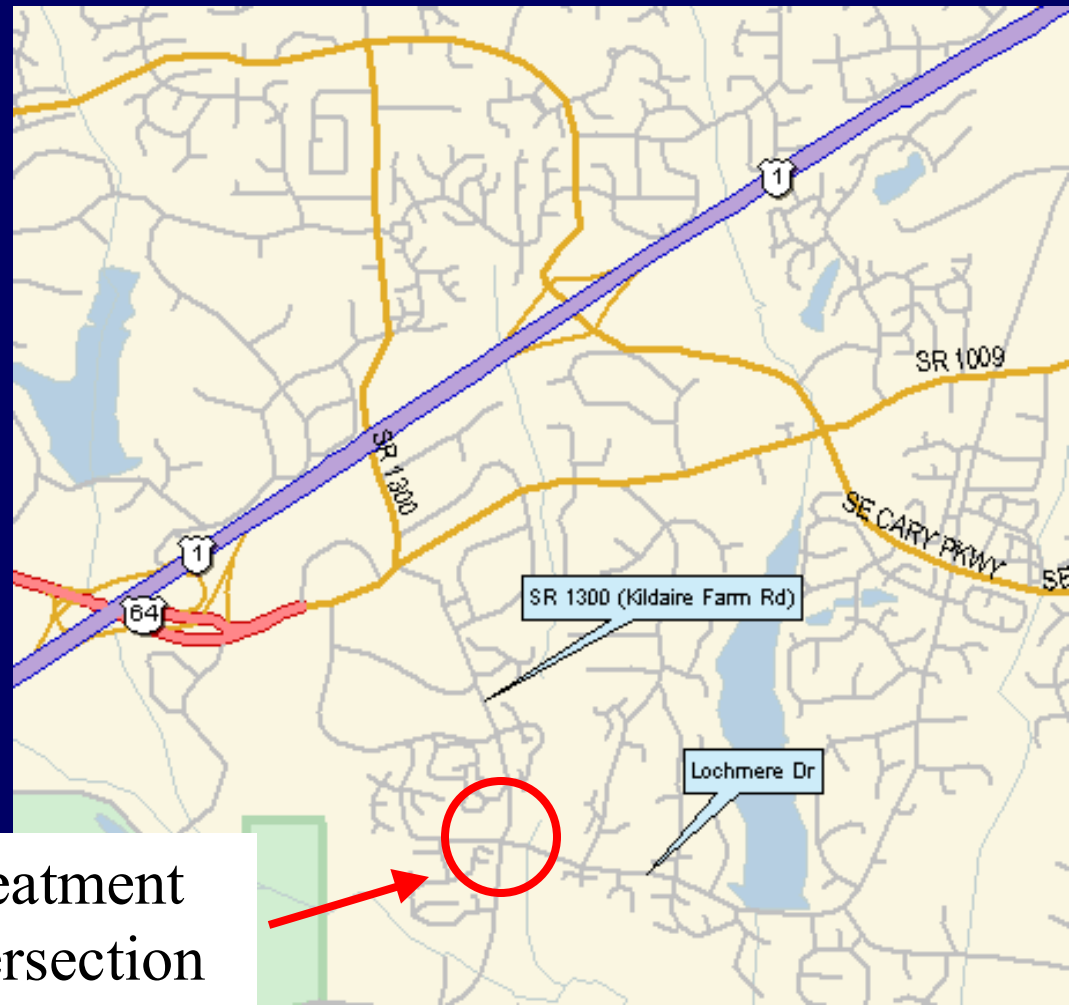


Traffic Signal Evaluation (2)

- Location:
 - SR 1300 (Kildaire Farm) at Lochmere in Wake County || SS# 05-94-037
- Countermeasure:
 - Convert Existing Stop Control Intersection to Fully Actuated Traffic Signal
 - Cost: \$80,404



Treatment
Intersection



Traffic Signal Evaluation (2)

Lochmere - Look East



Lochmere - Look West



SR 1300 - Look North

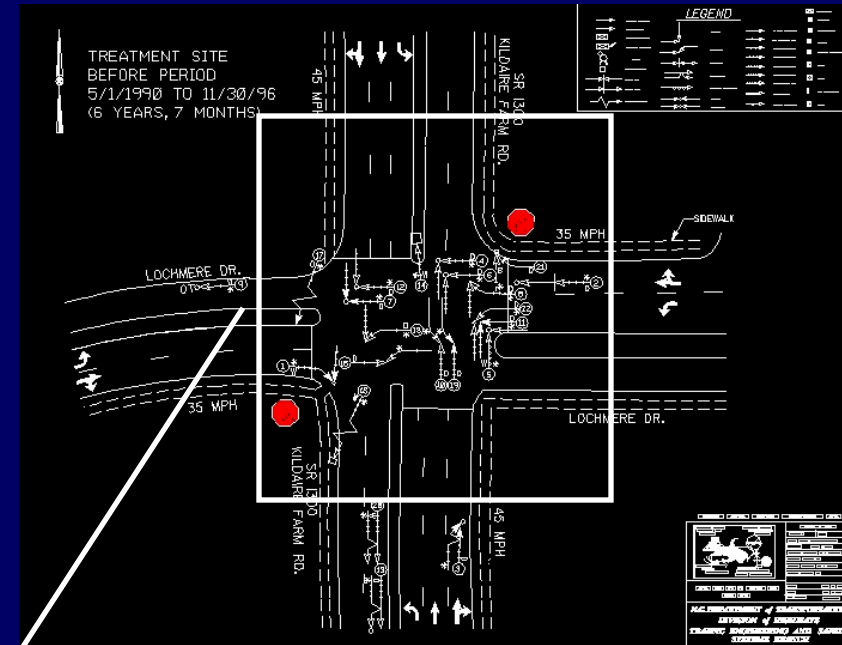
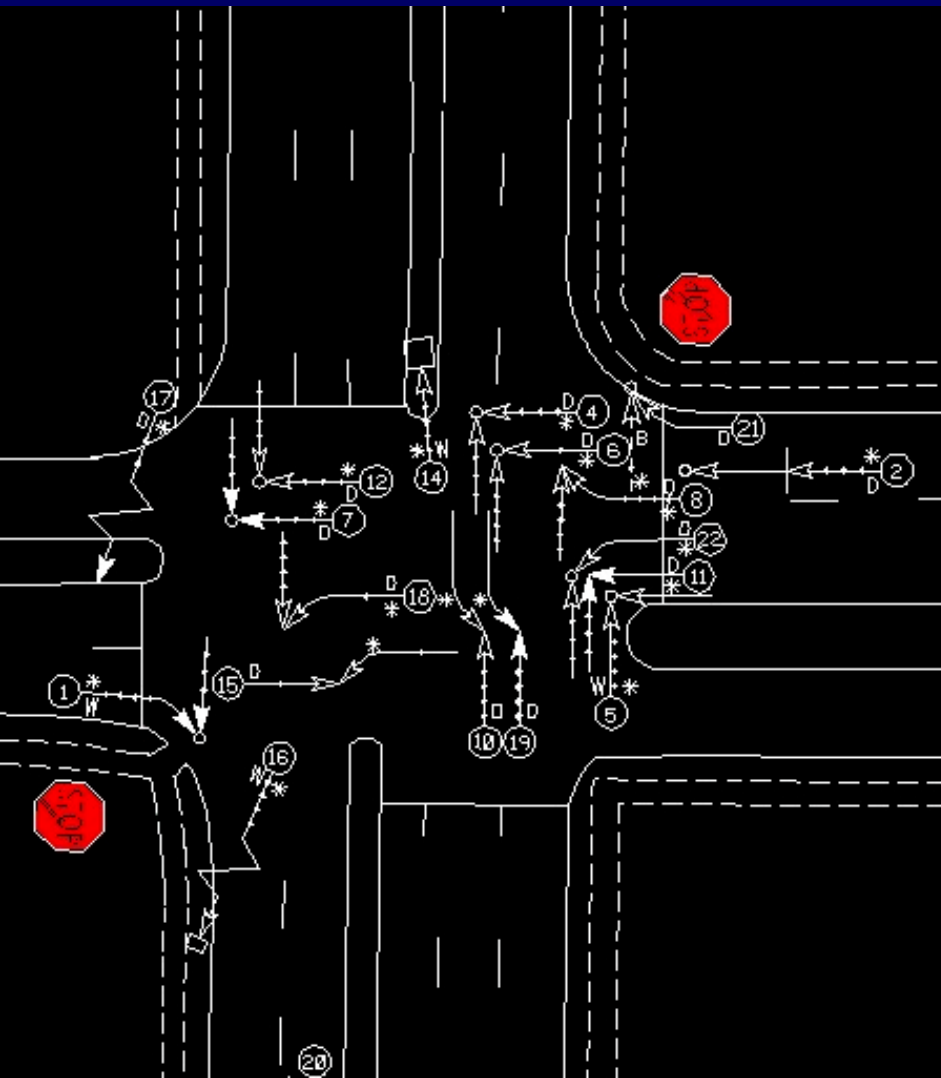


SR 1300 - Look South



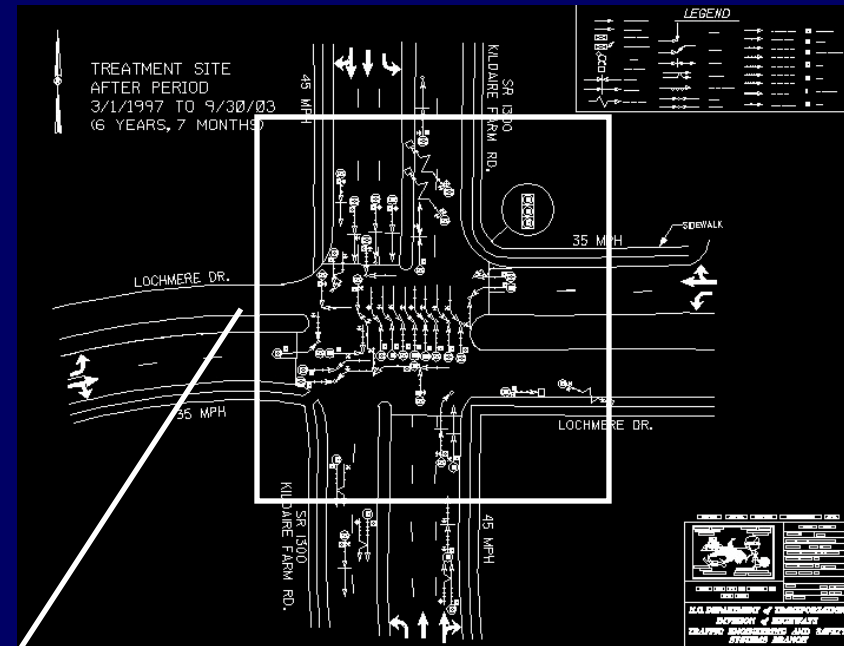
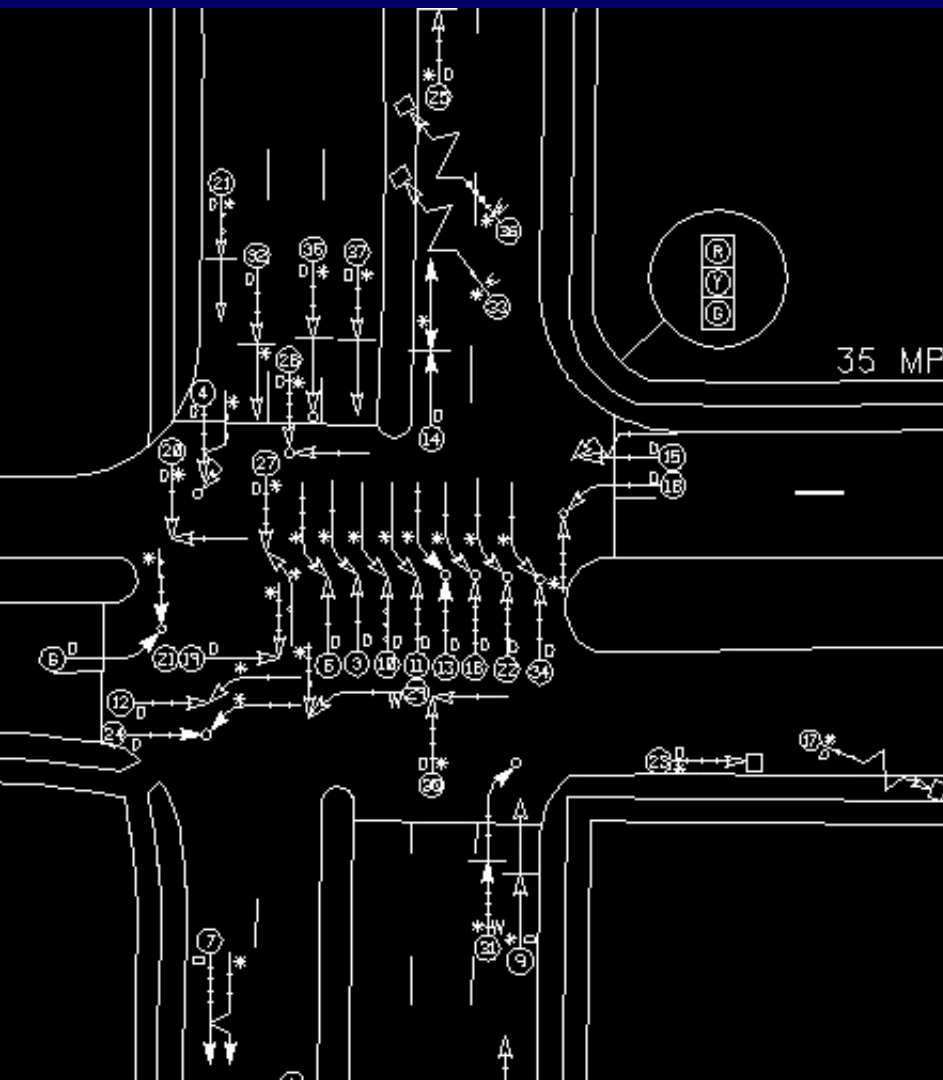
Traffic Signal Evaluation (2)

Before Collision Diagram



Traffic Signal Evaluation (2)

After Collision Diagram



Traffic Signal Evaluation (2)

Results

Treatment Information

	Before	After	Percent Reduction (-)/ Percent Increase (+)
Total Crashes	22	37	68.2
Total Severity Index	11.25	3.40	- 69.8
Frontal Impact Crashes	14	20	42.9
Frontal Severity Index	15.00	4.33	- 71.1
Volume	15700	20000	27.4

Comparison Information

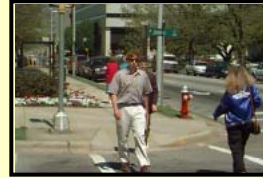
	Before	After	Percent Reduction (-)/ Percent Increase (+)
Total Crashes	14	39	178.6
Total Severity Index	3.64	5.22	43.4
Frontal Impact Crashes	7	14	100.0
Frontal Severity Index	3.11	10.11	225.1
Volume	15700	20000	27.4

Odds Ratio: Treatment versus Comparison

	Before	After	Percent Reduction (-)/ Percent Increase (+)
Treatment Total Crashes	22	37	---
Comparison Total Crashes	14	39	- 39.6 %

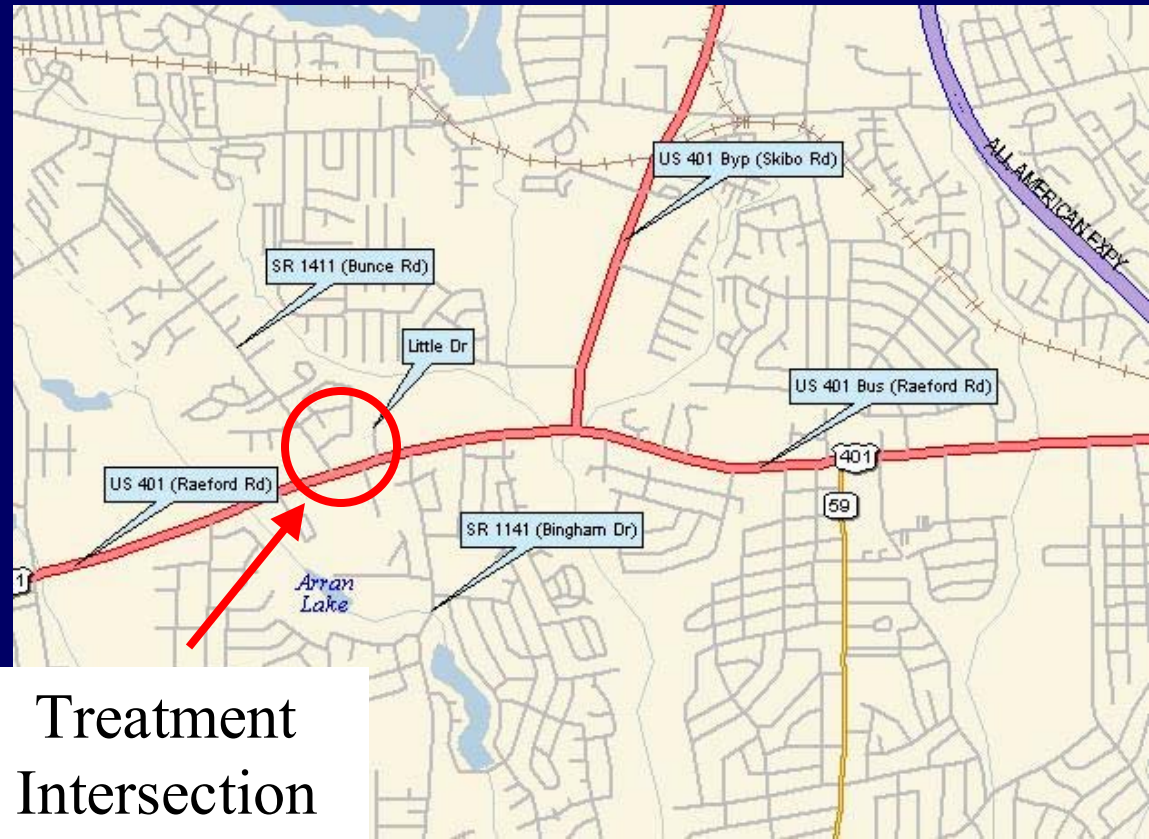
- Total Crashes
 - Range: -40 % to +68 %
- Frontal Impact Crashes
 - Increased 43 % (Naïve)
- Total Crash Severity
 - Decreased 70 %
- Frontal Impact Crash Severity
 - Decreased 71 %

Directional Crossover Evaluation



Directional Crossover Evaluation

- Location:
 - US 401 (Raeford) at SR 1546 (Little) / Falcon Village Shopping Center in Cumberland County || SS# 06-95-201
- Countermeasure:
 - Convert Full Movement Intersection to Directional Crossover
 - Cost: \$75,000



Treatment
Intersection

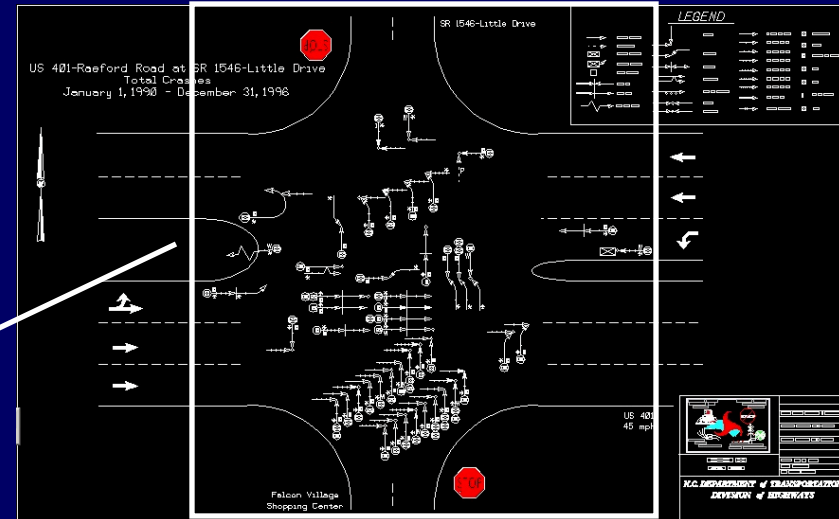
Directional Crossover Evaluation

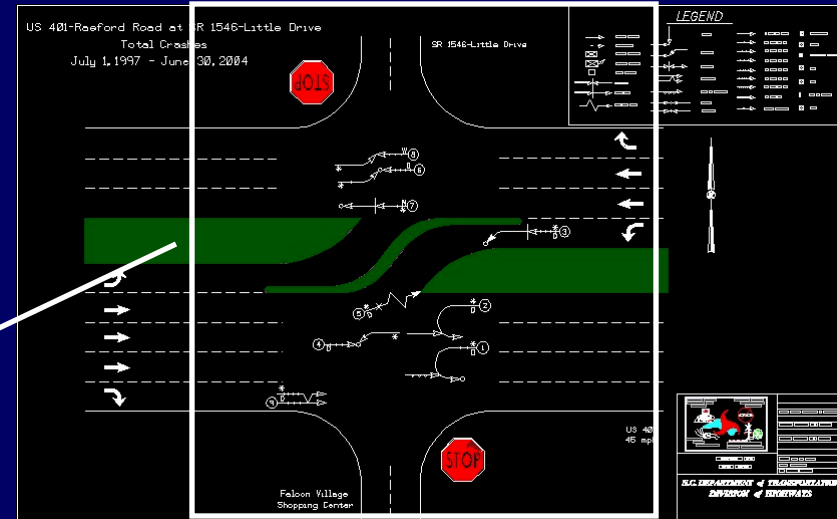


Directional Crossover Evaluation



Before Collision Diagram





Directional Crossover Evaluation

Results

Overall Total Crash Summary within Treatment Influence Area

	Before	After	Percent Reduction (-)/ Percent Increase (+)
Treatment Intersection	56	8	- 85.7
US 401-Raeford Road at SR 1141-Bingham Road	154	138	- 10.4
US 401-Raeford Road at SR 1411-Bunce Road	83	54	- 34.9
US 401-Raeford Road Section	390	243	- 37.7